

**Part III Form 2**

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	210001665
<b>Drinking-Water System</b>	Dowling Wells and Distribution System
<b>Drinking-Water System Owner:</b>	City of Greater Sudbury
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	From 2007-01-01 To 2007-12-31

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
--	---

**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes  No

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
  - Public access/notice via Government Office
  - Public access/notice via a newspaper
  - Public access/notice via Public Request
  - Public access/notice via a Public Library/Citizen Service Centre
  - Public access/notice via other method
- 

**Describe your Drinking-Water System**

The Dowling Wells and Distribution System encompasses all municipal distribution within Dowling. The system includes Dowling well #1 (Riverside) located on the north side of Riverside Dr. approximately 145m east of Lionel Avenue, Dowling well #2 (Lionel) located on the northwest corner of the intersection of Riverside Dr. and Lionel Avenue and Dowling Tank located on the south side of Hwy. 144, approximately 200m east of Houle St. Each of the wells are housed in individual structures. The wells take water from an unconfined aquifer in a primarily sand and gravel formation. The discharge at each well site undergoes treatment in the form of disinfection by chlorination, Ultra-Violet irradiation, and fluoridation before it enters the distribution system. Continuous analyzers for free chlorine residual, fluoride, and UV equipment are monitored by a PLC. A standby power generator with an automatic transfer switch is located at Lionel well.

**List all water treatment chemicals used over this reporting period**

Chlorine Gas UN#1017, Hydrofluosilicic Acid (20-30%) UN#1778,

**Were any significant expenses incurred to?**

- Install required equipment
- Repair required equipment
- Replace required equipment

**Please provide a brief description and a breakdown of monetary expenses incurred**

Inspection, clean and report on the Dowling elevated water storage tank at a cost of approximately \$10,000.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
2007/07/11	UV	33	mj/cm <sup>2</sup>	Resample/Re-test;	2007/07/11
2007/10/26	UV	16.2	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2007/10/26
2007/10/29	UV	16	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2007/10/29
2007/12/11	UV	16.67	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2007/12/11

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
<b>Raw: RIVERSIDE WELL#1</b>					
	52	0 to 0	0 to 0		
<b>Raw: LIONEL WELL#2</b>					
	52	0 to 0	0 to 0		
<b>Treated: LIONEL WELL</b>					
	52	0 to 0	0 to 0	51	0 to 10
<b>Treated: RIVERSIDE WELL</b>					
	52	0 to 0	0 to 0	51	0 to 10
<b>Distribution</b>					
	145	0 to 0	0 to 0	41	0 to 500

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #) - (max #)
Chlorine Residual Distribution System	8,760	0.79 - 1.21

*NOTE: For continuous monitors use 8760 as the number of samples.*

**LIONEL WELL**

<b>Turbidity</b>	8,760	0.00 - 1.97
<b>Chlorine</b>	8,760	0.05 - 2.00
<b>Fluoride</b> (If the DWS provides fluoridation)	8,760	0.20 - 0.97

**RIVERSIDE WELL**

<b>Turbidity</b>	8,760	0.00 - 0.77
<b>Chlorine</b>	8,760	0.51 - 2.00
<b>Fluoride</b> (If the DWS provides fluoridation)	8,760	0.20 - 0.99

**NOTE:** Record the unit of measure if it is **not** milligrams per litre.

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order or other legal instrument.**

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

**Summary of Inorganic parameters tested during this reporting period or most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Lead</b>	2007/01/29	<0.001	mg/L	No

**LIONEL WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>	2007/01/31	0.0005	mg/L	No
<b>Arsenic</b>	2007/01/31	0.001	mg/L	No
<b>Barium</b>	2007/01/31	0.0177	mg/L	No
<b>Boron</b>	2007/01/31	0.013	mg/L	No
<b>Cadmium</b>	2007/01/31	0.0001	mg/L	No
<b>Chromium</b>	2007/01/31	0.0014	mg/L	No
<b>Mercury</b>	2007/01/31	0.00015	mg/L	No
<b>Selenium</b>	2007/01/31	0.001	mg/L	No
<b>Uranium</b>	2007/01/31	0.001	mg/L	No
<b>Fluoride</b>	2004/01/19	0.56	mg/L	No
<b>Nitrate</b>	2007/01/31	0.43	mg/L	No
	2007/04/11	0.33	mg/L	No
	2007/06/19	0.38	mg/L	No
	2007/08/27	0.44	mg/L	No
	2007/11/20	0.45	mg/L	No
<b>Nitrite</b>	2007/01/31	0.05	mg/L	No
	2007/04/11	0.05	mg/L	No
	2007/06/19	0.05	mg/L	No
	2007/08/27	0.05	mg/L	No
	2007/11/20	0.05	mg/L	No
<b>Sodium</b>	2006/08/22	28.10	mg/L	Yes

**RIVERSIDE WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2007/01/31	0.0005	mg/L	No
Arsenic	2007/01/31	0.001	mg/L	No
Barium	2007/01/31	0.0154	mg/L	No
Boron	2007/01/31	0.0067	mg/L	No
Cadmium	2007/01/31	0.0001	mg/L	No
Chromium	2007/01/31	0.0014	mg/L	No
Mercury	2007/01/31	0.0001	mg/L	No
Selenium	2007/01/31	0.001	mg/L	No
Uranium	2007/01/31	0.001	mg/L	No
Fluoride	2004/01/19	0.64	mg/L	No
Nitrate	2007/01/31	0.34	mg/L	No
	2007/04/11	0.48	mg/L	No
	2007/06/19	0.36	mg/L	No
	2007/08/27	0.41	mg/L	No
	2007/11/06	0.44	mg/L	No
Nitrite	2007/01/31	0.05	mg/L	No
	2007/04/11	0.05	mg/L	No
	2007/06/19	0.05	mg/L	No
	2007/08/27	0.05	mg/L	No
	2007/11/06	0.05	mg/L	No
Sodium	2005/12/14	14.10	mg/L	No

**Summary of Organic parameters sampled during this reporting period or most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2007	0.0068	mg/L	No

**LIONEL WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2007/01/31	0.0004	mg/L	No
Aldicarb	2007/01/31	0.00065	mg/L	No
Aldrin + Dieldrin	2007/01/31	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2007/01/31	0.0009	mg/L	No
Azinphos-methyl	2007/01/31	0.0003	mg/L	No
Bendiocarb	2007/01/31	0.0013	mg/L	No
Benzene	2007/01/31	0.00025	mg/L	No
Benzo(a)pyrene	2007/01/31	0.00001	mg/L	No
Bromoxynil	2007/01/31	0.0005	mg/L	No
Carbaryl	2007/01/31	0.0013	mg/L	No
Carbofuran	2007/01/31	0.0013	mg/L	No
Carbon Tetrachloride	2007/01/31	0.00025	mg/L	No
Chlordane (Total)	2007/01/31	0.000004	mg/L	No
Chlorpyrifos	2007/01/31	0.0003	mg/L	No

Cyanazine	2007/01/31	0.0003	mg/L	No
Diazinon	2007/01/31	0.0003	mg/L	No
Dicamba	2007/01/31	0.0002	mg/L	No
1,2-Dichlorobenzene	2007/01/31	0.00025	mg/L	No
1,4-Dichlorobenzene	2007/01/31	0.00025	mg/L	No
(DDT) + metabolites	2007/01/31	0.000005	mg/L	No
1,2-Dichloroethane	2007/01/31	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2007/01/31	0.00025	mg/L	No
Dichloromethane	2007/01/31	0.00025	mg/L	No
2-4 Dichlorophenol	2007/01/31	0.000051	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2007/01/31	0.0002	mg/L	No
Diclofop-methyl	2007/01/31	0.0002	mg/L	No
Dimethoate	2007/01/31	0.0003	mg/L	No
Dinoseb	2007/01/31	0.00005	mg/L	No
Diquat	2007/01/31	0.007	mg/L	No
Diuron	2007/01/31	0.0065	mg/L	No
Glyphosate	2007/01/31	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2007/01/31	0.000004	mg/L	No
Linadane (Total)	2007/01/31	0.00000027	mg/L	No
Malathion	2007/01/31	0.0003	mg/L	No
Methoxychlor	2007/01/31	0.00000072	mg/L	No
Metolachlor	2007/01/31	0.0002	mg/L	No
Metribuzin	2007/01/31	0.0002	mg/L	No
Monochlorobenzene	2007/01/31	0.00025	mg/L	No
Paraquat	2007/01/31	0.001	mg/L	No
Parathion	2007/01/31	0.0002	mg/L	No
Pentachlorophenol	2007/01/31	0.000051	mg/L	No
Phorate	2007/01/31	0.0003	mg/L	No
Picloram	2007/01/31	0.00005	mg/L	No
Polychlorinated Biphenyls(PCB)	2007/01/31	0.000045	mg/L	No
Prometryne	2007/01/31	0.0002	mg/L	No
Simazine	2007/01/31	0.0003	mg/L	No
Temephos	2007/01/31	0.018	mg/L	No
Terbufos	2007/01/31	0.0002	mg/L	No
Tetrachloroethylene	2007/01/31	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2007/01/31	0.000051	mg/L	No
Triallate	2007/01/31	0.0002	mg/L	No
Trichloroethylene	2007/01/31	0.00025	mg/L	No
2,4,6-Trichlorophenol	2007/01/31	0.000051	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2007/01/31	0.00005	mg/L	No
Trifluralin	2007/01/31	0.0002	mg/L	No
Vinyl Chloride	2007/01/31	0.00025	mg/L	No

**RIVERSIDE WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2007/01/31	0.0004	mg/L	No
Aldicarb	2007/01/31	0.0006	mg/L	No
Aldrin + Dieldrin	2007/01/31	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2007/01/31	0.0009	mg/L	No
Azinphos-methyl	2007/01/31	0.0003	mg/L	No

<b>Bendiocarb</b>	2007/01/31	0.0012	mg/L	No
<b>Benzene</b>	2007/01/31	0.00025	mg/L	No
<b>Benzo(a)pyrene</b>	2007/01/31	0.0000091	mg/L	No
<b>Bromoxynil</b>	2007/01/31	0.00051	mg/L	No
<b>Carbaryl</b>	2007/01/31	0.0012	mg/L	No
<b>Carbofuran</b>	2007/01/31	0.0012	mg/L	No
<b>Carbon Tetrachloride</b>	2007/01/31	0.00025	mg/L	No
<b>Chlordane (Total)</b>	2007/01/31	0.000004	mg/L	No
<b>Chlorpyrifos</b>	2007/01/31	0.0003	mg/L	No
<b>Cyanazine</b>	2007/01/31	0.0003	mg/L	No
<b>Diazinon</b>	2007/01/31	0.0003	mg/L	No
<b>Dicamba</b>	2007/01/31	0.0002	mg/L	No
<b>1,2-Dichlorobenzene</b>	2007/01/31	0.00025	mg/L	No
<b>1,4-Dichlorobenzene</b>	2007/01/31	0.00025	mg/L	No
<b>(DDT) + metabolites</b>	2007/01/31	0.000005	mg/L	No
<b>1,2-Dichloroethane</b>	2007/01/31	0.00025	mg/L	No
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	2007/01/31	0.00025	mg/L	No
<b>Dichloromethane</b>	2007/01/31	0.00025	mg/L	No
<b>2-4 Dichlorophenol</b>	2007/01/31	0.000061	mg/L	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	2007/01/31	0.0002	mg/L	No
<b>Diclofop-methyl</b>	2007/01/31	0.0002	mg/L	No
<b>Dimethoate</b>	2007/01/31	0.0003	mg/L	No
<b>Dinoseb</b>	2007/01/31	0.000051	mg/L	No
<b>Diquat</b>	2007/01/31	0.007	mg/L	No
<b>Diuron</b>	2007/01/31	0.006	mg/L	No
<b>Glyphosate</b>	2007/01/31	0.01	mg/L	No
<b>Heptachlor + Heptachlor Epoxide</b>	2007/01/31	0.000004	mg/L	No
<b>Linadane (Total)</b>	2007/01/31	0.00000027	mg/L	No
<b>Malathion</b>	2007/01/31	0.0003	mg/L	No
<b>Methoxychlor</b>	2007/01/31	0.00000073	mg/L	No
<b>Metolachlor</b>	2007/01/31	0.0002	mg/L	No
<b>Metribuzin</b>	2007/01/31	0.0002	mg/L	No
<b>Monochlorobenzene</b>	2007/01/31	0.00025	mg/L	No
<b>Paraquat</b>	2007/01/31	0.001	mg/L	No
<b>Parathion</b>	2007/01/31	0.0002	mg/L	No
<b>Pentachlorophenol</b>	2007/01/31	0.000061	mg/L	No
<b>Phorate</b>	2007/01/31	0.0003	mg/L	No
<b>Picloram</b>	2007/01/31	0.000051	mg/L	No
<b>Polychlorinated Biphenyls(PCB)</b>	2007/01/31	0.000045	mg/L	No
<b>Prometryne</b>	2007/01/31	0.0002	mg/L	No
<b>Simazine</b>	2007/01/31	0.0003	mg/L	No
<b>Temephos</b>	2007/01/31	0.017	mg/L	No
<b>Terbufos</b>	2007/01/31	0.0002	mg/L	No
<b>Tetrachloroethylene</b>	2007/01/31	0.00025	mg/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	2007/01/31	0.000061	mg/L	No
<b>Triallate</b>	2007/01/31	0.0002	mg/L	No
<b>Trichloroethylene</b>	2007/01/31	0.00025	mg/L	No
<b>2,4,6-Trichlorophenol</b>	2007/01/31	0.000061	mg/L	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	2007/01/31	0.000051	mg/L	No
<b>Trifluralin</b>	2007/01/31	0.0002	mg/L	No
<b>Vinyl Chloride</b>	2007/01/31	0.00025	mg/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

**(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)**